F





Page 1

Item ID:

D3140-89

Accept

Setup Start

Stop



Revision ID:

Start Date:

Item Name: Doubler

Required Date: 27/11/2009

23/11/2009

Start Qty: 10.00 Req'd Qty: 10.00

Cust Item ID:

Customer:

Reference:

Approvals:

Date: 09-11-23

Tooling:

Date:

Run

Start



QC:

Date: SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID

Draw Nbr

Operation Description Set Up/ **Run Hours** Draw Number Draw Plan Code Rev.

Accept Qty

Reject Qty

Reject Insp. Number Stamp

D3140

100

Waterjet

FLOW CNC Waterjet

7624

Revision Nbr

Rev F

FLOW WATER JET

Memo

1-Cut as per Dwg D3140

Dwg Rev: Prog Rev: 2-Deburr if necessary

0.00

0.00

B 9-12-7

110

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

B 9-12-7

Quality Control

120

Quality Control

QC8- Inspect parts - second check

Memo

Memo

0.00

27 Sonhalos

Dart Aerospace

	-									-		
W/O:			W	ORK ORDER CHANG	GES							
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		· · · · · · · · · · · · · · · · · · ·		·								
		·										
			· · · · · · · · · · · · · · · · · · ·	Enter Ex-								
Part No	:	<u></u> ₽AR #:	_ Fault Cat	egory:	_ NCR	Yes N	40 DQ	A:	_ Date: _			
	Re	Resolution: QA: N/C Clo							sed: Date:			
NCR:	Ĺ	V	ORK OR	DER NON-CONFORM	ANCE	(NCR))					
DATE	STEP	Description of NC						ification Approval		Approval		
		Section A	Initial Chief Eng	Action Description Chief Eng		Date	Sect	Section C Chief Er		QC Inspector		
		•										
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		'										
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F



Page 2

Item ID:

D3140-89

Accept

Setup Start

Revision ID:

Doubler Item Name:

23/11/2009

Start Qty: 10.00

Req'd Qty: 10.00

Cust Item ID:

Customer:

Draw

Number

Reference:

Start Date:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Draw

Rev.

Plan

Code

Run

Start

Stop



Required Date: 27/11/2009

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID**

130

Small Fab

Small Fab

Operation

Small Fab

Description

Set Up/ **Run Hours**

0.00

0.00

1-Scuff surfaces with 80grit sandpaper per QSI 006

2-Deburr. No sharp edges

140

QC

Quality Control

QC5- Inspect part completeness to step on W/O

2) Sor/12/14

Memo

Memo

Chemical Conversion Coat per QSI005 4.1

0.00

0.00 MD 09/12/17

Accept

Oty

Reject Insp. Stamp Number

Reject

Qty

150

HandFinish

Hand Finishing

Memo

Dart Aerospace Ltd

	•										
W/O:		***************************************	WC	ORK ORDER CHANG	ES						
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date			Approval QC Inspector	
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										الان	
· 											
Part No	:	PAR #:	Fault Cate	gory:	_ NCR	: Yes N	o DQ	\ :	Date: _	,	
	R	esolution:	Dispositio	n:	QA:	N/C Clos	sed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR)					
DATE	CTED	Description of NC	Description of NC Corrective Action			Section B Veri					
DAIL	STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section C		Chief Eng	QC Inspector		
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		1									

Work Order ID 53886

F



Page 3

November 23, 2009 11:23:10 AM

Required Date: 27/11/2009

Item ID:

D3140-89

Accept

Setup Start



Revision ID: Item Name:

Doubler

23/11/2009

Start Otv: 10.00 Rea'd Otv: 10.00

Cust Item ID:

Customer:

Reference:

Start Date:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

SPC (Y/N): Date:

Date:

Stop

Sequence ID/ Work Center ID

160

QC

Operation Description

OC3- Inspect Part Finish

Memo

Set Up/ **Run Hours**

0.00

0.00

Draw

Number

Rev. Code

Draw

Plan

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Quality Control

170

Packaging Packaging

Identify as per dwg & Stock Location:

Memo

Memo

0.00

0.00

180

Ouality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

	P	· —••							
W/O:			W	ORK ORDER CHANG	ES				
DATE*	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector
		÷ .				•			
Part No	:	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQA	\:	_ Date: _	
	R	esolution:	Dispositi	on:	_ QA: N/C Cld	osed:		Date: _	
NCR:			WORK OR	DER NON-CONFORMA	NCE (NCR)	-		
DATE	STEP	Description of NC			Section B Ver			Approval	Approval
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Sign & Section C	Chief Eng	QC Inspector
	,				**			`	
									1
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Picklist Print

November 23, 2009 11:23:17 AM

Work Order ID: 53886

Parent Item:

D3140-89RevF

Parent Item Name: Doubler

Comments:





Start Date: 23/11/2009

Required Date: 27/11/2009

Page 1

Start Qty: 10.00

Required Qty: 10.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
M2024T3S.032		Purchased	No	•		100	sf	277.0254		٦٦.		
											1-189-17-	1

2024-T3 .032 sheet

Warehouse	Loc Qty	Loc Code	
Location			i
Main Warehouse			
MAT	277.0254316		<u></u>
102942	1.5		1
105555	4.0684		
106272	5.3		
108595	1.2		
109240	6.6032		i
110305	129.99		
110778	18.0296316		
111699	11.3342		
113189	96		113189
18147	3		
			1300

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Da	te Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								.,	
				·					
Part No	;	PAR #:	Fault Cat	egory:	NCR: Ye	s No	DQA:	Date: _	
	R	esolution:	Dispositi	on:	_ QA: N/C	Closed	l:	Date: _	
NCR:		•	WORK ORI	DER NON-CONFORMA	ANCE (NO	CR)			
DATE	STEP	Description of NC	Description of NC Corrective Action		ion B	v	erification	Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Section C			Chief Eng	QC Inspector
		·	-	-					
				**					
			·						

D3065-5DART AEROSPACE LTD	Work Order:	53886
Description: Doubler	Part Number:	D3140-89
Inspection Dwg: D3140 Rev: F		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
3.05	+/-0.030	3,046	*			
26.65	+/-0.030	3,046 26,635	¥ 36.6	95		
43.00	+/-0.030	43.00	7 6			
3.20	+/-0.030	3,196	×			
5.79	+/-0.030	5.788	*			
0.032	+/-0.010	, 037	<u>%</u>			
						<u> </u>
						· · ·
						· · ·
		- + <u></u>				

Measured by:	B	Audited by:	8	Prototype Approval:	N/A
Date:	9-12-7	Date:	09/12/08	Date:	N/A

Rev	Date	Change			þу	Approved
Α	09.09.14	New Issue	·	 K T	1-	
L				 •/		- P4-3



DESIG	ESIGN AF DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECK	EQ \\	APPROVED ,	DRAWING NO. REV. F		
	Mek	#	D3140 SHEET 1 OF 7		
DATE			TITLE SCALE		
06.1	0.06		DOOR NTS		
Α		02.04.18	NEW ISSUE		
В		03.01.23	REMOVE -65/-81/-83; ADD -301/-303		
С		04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106°		
			ADD -103/-104/-105/-106:		

RELEASED 06.11.13

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NO FICE WORK GROER NO. 3388C plog-11-23

TV T	OTY	
F	06.10.06	ADD NOTE 14; CORRECT PART TITLE, NOW D3140-09/-92/-104 SHOWN D3140-10/-91/-103 OPPOSITE
E	06.06.09	1.75 WAS 1.88, 4.75 WAS 4.13 ON -08/-07, 1.00 WAS 1.20 ON -09/-
D	05.11.23	ADD -103/-104/-105/-106; REMOVE -67
С	04.11.08	CHANGE DELASTEK SPEC. TEC-77; AD PART MARKING; ADD NOTES 11, 12, 1 CHANGE ANGLE -95/-97/-98 TO 10

QTY -05	QTY -06	QTY -07	QTY -08	QTY -09	QTY -10	PART NUMBER	DESCRIPTION
05 X	-700	-0,	-00	-00		D3140-05	DOOR
	X					D3140-06	DOOR
		X				D3140-07	DOOR
			Х			D3140-08	DOOR
		1		Х		D3140-09	DOUBLER ASSEMBLY
		<u> </u>	1		X	D3140-10	DOUBLER ASSEMBLY
3	3					D3140-57	PAD
1	1					D3140-59	PAD
2	2					D3140-61	PAD
2	2					D3140-63	PAD
		1	1			D3140-69	PAD
		1	1			D3140-71	PAD
		1	1			D3140-73	PAD
		1	1			D3140-75	PAD
		1	1			D3140-77	PAD
		1	1			D3140-79	PAD
				1	1	D3140-85	ANGLE
1	1					D3140-87	DOUBLER
				1	1	D3140-89	DOUBLER
		1				D3140-91	DOUBLER
			1			D3140-92	DOUBLER
3	3					D3140-95	DOUBLER
1				<u> </u>		D3140-97	DOUBLER
	1					D3140-98	DOUBLER
		1	1			D3140-99	DOUBLER
		2	2			D3140-101	DOUBLER
		1				D3140-103	DOUBLER
			1			D3140-104	DOUBLER
		1		<u> </u>		D3140-105	DOUBLER
			1	· · · · · · · · · · · · · · · · · · ·		D3140-106	DOUBLER
1	1					D3140-241	DOUBLER
1		1				D3140-301	DOUBLER
	1		1			D3140-303	DOUBLER
		1			1		
			1	5	5	MS20426AD3-4	RIVET



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DESIGN #	CB		ROSPACE LTD ty, ontario, canada
CHECKED	APPROVED	DRAWING NO.	REV. F SHEET 2 OF 7
DATE	(48	TITLE	SCALE
06.10.06		DOOR	итз



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77
MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006
MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS.
FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM



FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

TOOL <u>PART</u> D3140-05 B30-23000-01T D3140-06 B30-23000-02T D3140-07 B30-23000-03T B30-23000-04T D3140-08 B30-23000-57T D3140-57 B30-23000-61T D3140-61 B30-23000-63T D3140-63 B30-23000-69T D3140-69 D3140-71 B30-23000-71T D3140-73 B30-23000-73T D3140-75 B30-23000-75T D3140-77 B30-23000-77T D3140-79 B30-23000-79T D3140-89 D3140-89T1 D3140-301 D3140-301T1 D3140-303 D3140-303T1



W/053886



MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PÉR DART QSI 005 4.1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL



ALL DIMENSIONS IN INCHES



TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION



RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130



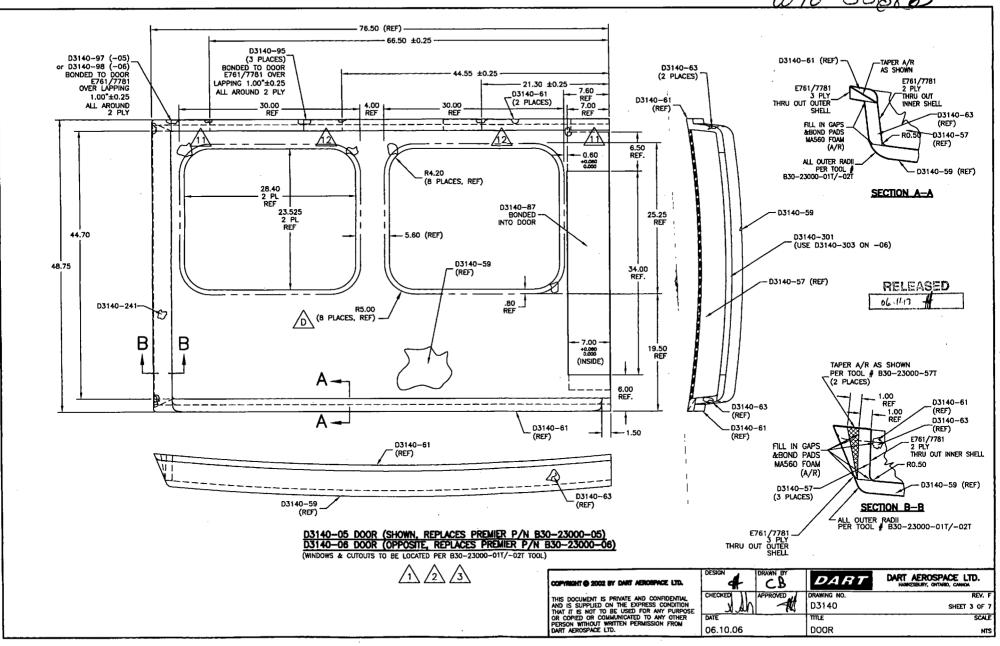
PARTS MUST BE SCUFFED WITH 80 GRIT SANDPAPER PRIOR TO ACID ETCH AND ALODINE PER DART QSI 005 4.1

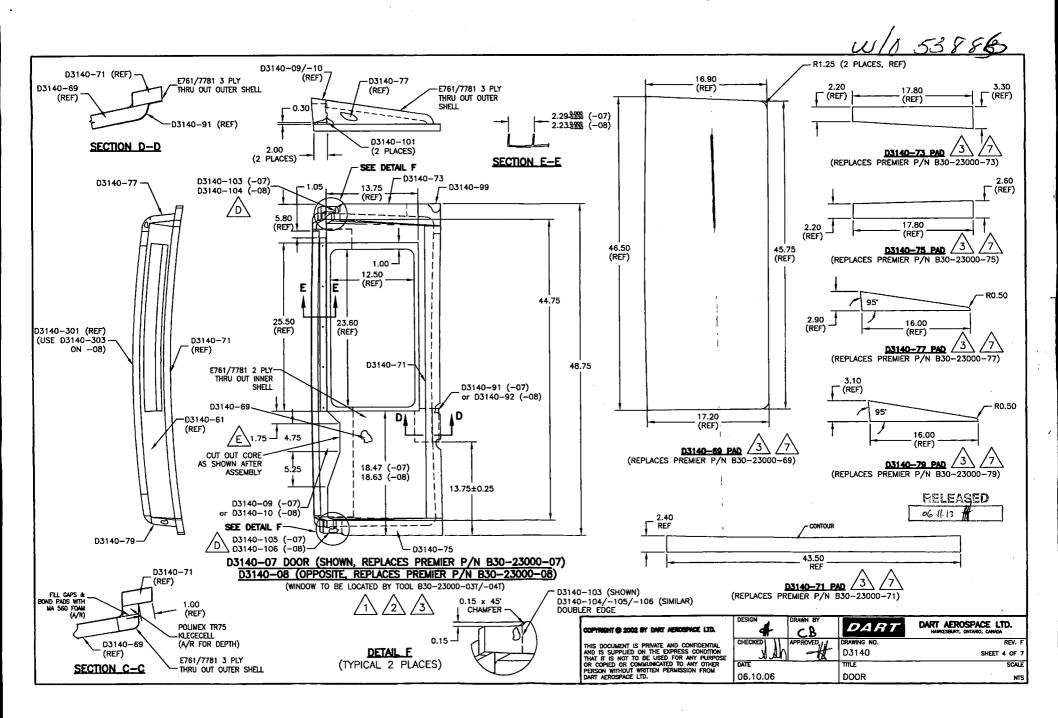


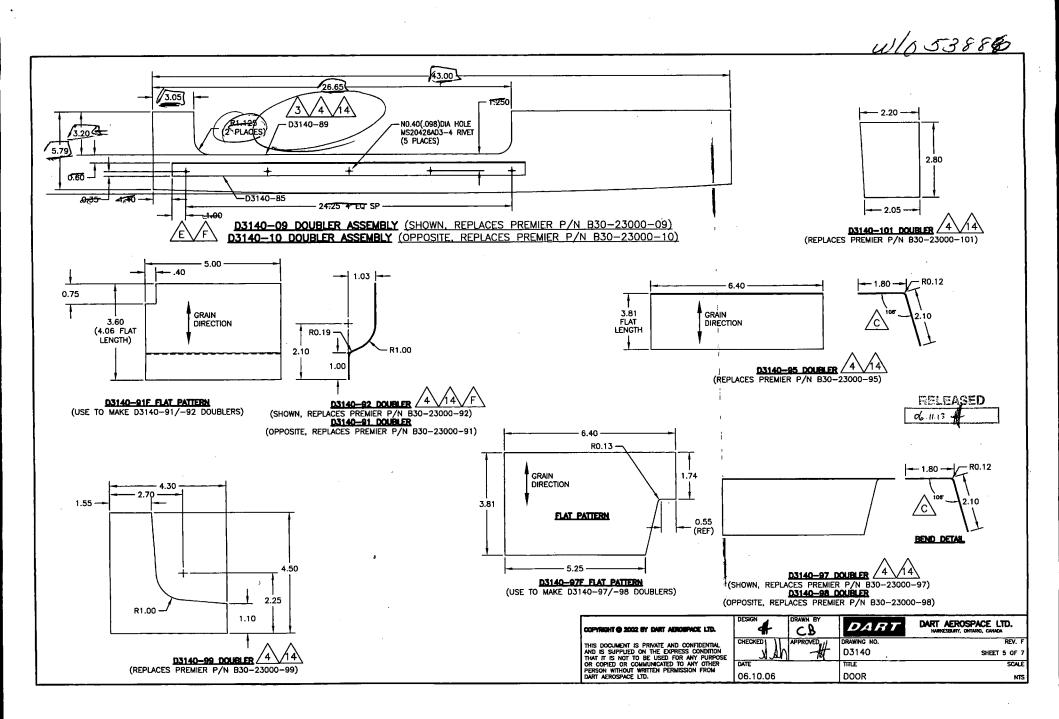
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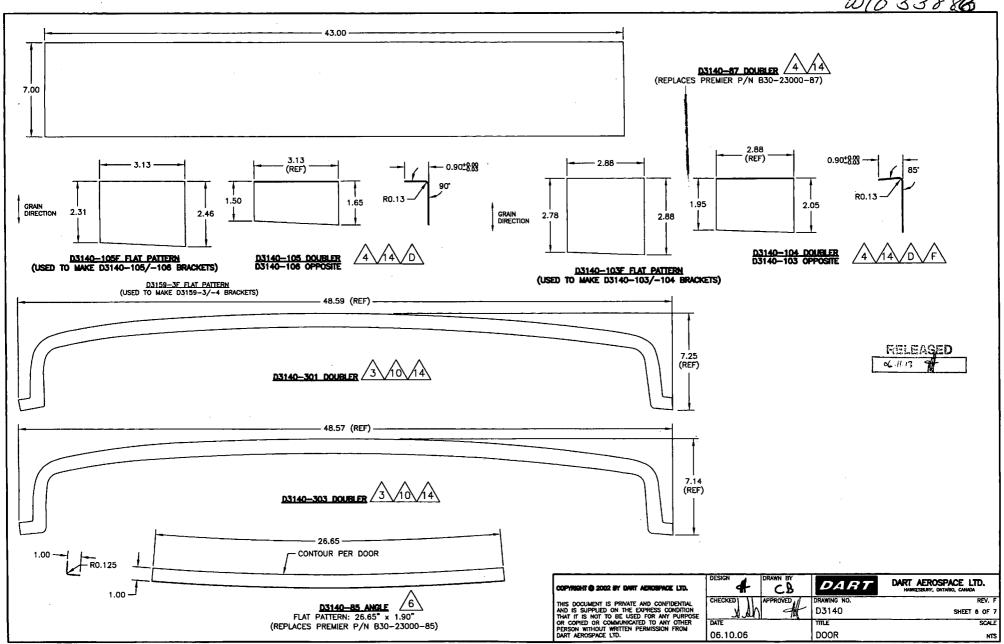
W/0 53886







wlo 53886 0.90±8.88 ---85° R0.13 2.05 MELEASED



Wlo 53 886 - 76.10±0.25 -3.25 ---2.20 (REF) D3140-61_PAD (REPLACES PREMIER P/N B30-23000-61) → 4.75 ±0.25 3.25 (REF) 76.00±0.25 D3140-83 PAD /3 /7 (REPLACES PREMIER P/N B30-23000-63) -- 75.25±0.25 --44.50 47.50 44.70 (REF) 46.25 (REF) 03140-241 DOUBLER 5 14 (REPLACES PREMIER P/N B30-23000-241) <u>D3140-57 PAD</u> (REPLACES PREMIER P/N B30-23000-57) R1.00 (2 PLACES, REF) D3140-59 PAD // (REPLACES PREMIER P/N B30-23000-59) DART AEROSPACE LTD.
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